

~~Cancel claims 4, 8-10, 14, and 17-22.~~

~~In claim 3, delete "any of claims 1-2" and insert therefor --claim 1--.~~

~~In claim 5, delete "any of claims 1-4" and insert therefor --claim 1--.~~

~~In claim 5, delete "consisting of" and insert therefor --comprising--.~~

In claim 6, delete "claims 1-5" and insert therefor --claim 5--.

~~In claim 7, delete "claim 1-6" and insert therefor --claim 6--.~~

a1 11. (amended) An isolated DNA sequence of claim 23 having the nucleotide sequence [represented by the formula] shown in SEQ ID No. 6.

~~In claim 12, delete "any one of claims 8-11" and insert therefor --claim 23--.~~

a2 13. (amended) The vector of claim 12[, wherein such vector] that is plasmid pBTac2go [pBTac2 containing the DNA sequence as claimed in any one of claims 8-11].

~~In claim 15, delete "claims 12-14" and insert therefor --claim 12--.~~

a3 16. (amended) [A] The microbial host [according to] of claim [15] 25 [wherein said host is from] that is E. coli LE 392 pUBS 520 pBTac2go (DSM No. 11328).

Please add the following claims:

a4 23. An isolated DNA sequence encoding a purified thermostable DNA polymerase from *Thermococcus gorgonarius*, wherein said DNA polymerase is characterized in that it catalyses the template directed polymerisation of DNA, possesses 3'-5'-exonuclease (proofreading) activity, and exhibits at least a two-fold greater replication fidelity than DNA polymerase obtainable from *Pyrococcus furiosus*.